Beam Power Tube— Sharp-Cutoff Pentode

For Combined FM Detector and Audio-Frequency Output Amplifier Applications in TV Receivers

DUODECAR TYPE

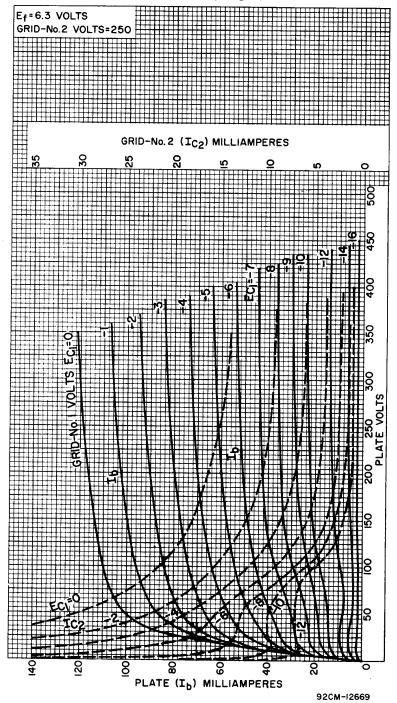
Electrical.	
Heater Characteristics and Ratings: Voltage (AC or DC)	p s
Beam Power Unit: Grid No.1 to plate 0.26 Input: $G1_B$ to $(K_B+G3_B,G2_B,IS,H)$ 11 Output: P_B to $(K_B+G3_B,G2_B,IS,H)$	f
Pentode Unit: G1p to Pp	f f f
Mechanical:	
Operating Position. Type of Cathodes. Maximum Overall Length. Seated Length. Diameter. Seated Length. Diameter. Seated Length. Dimensional Outline (JEDEC 9-59). Base. See General Section Bulb. Basing Designation for BOTTOM VIEW. Pin 1-Heater Pin 2-Pentode Cathode Pin 3-Pentode Grid No.1 Pin 4-Pentode Grid No.3 Pin 5-Internal Shield Pin 6-Pentode Plate Pin 7-Pentode Grid No.2 Pin 8-Beam Power Grid No.2 Pin 9-Beam Power Grid No.3 Pin 10-Beam Power Grid No.2 Pin 11-Beam Power Grid No.2 Pin 11-Beam Power Plate	· + · · · · · · · · · · · · · · · · · ·
Pin 12 - Heater The dc component must not exceed 100 volts.	
b Without external shield. ← Indicates a change.	

Electrical:

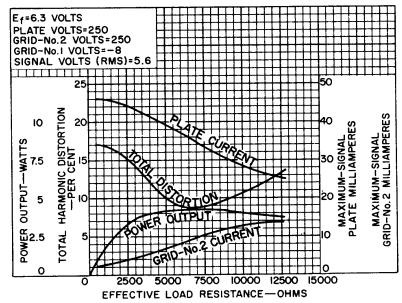
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Characteristics, Class A ₁ Amplifier (Pentode Unit):			
Plate Supply Voltage 150 volts			
Grid-No.3	-		
Grid-No.1 Connected to negative end of cathode resistor			
Cathode Resistor 560 ohms			
Plate Resistance (Approx.)			
Transconductance. Grid No.3 to Plate 400 μmhos			
Plate Current 1.3 ma			
Grid-No.2 Current	~		
Grid-No.3 Voltage (Approx.) for plate $\mu a = 50$. -4.5 volts			
PENTODE UNIT — FM SOUND DETECTOR			
Maximum Ratings, Design-Maximum Values:			
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Plate Voltage	_		
Grid-No.2 (Screen-Grid) Supply Voltage 330 max. volts			
Grid-No.2 Voltage See Grid-No.2 Input Rating Chart at front of Receiving Tube Section			
Grid-No.1 (Control-Grid) Voltage:			
Positive-bias value 0 max. volts			
Plate Dissipation 1.7 max. watts Grid-No.2 Input:			
For grid-No.2 voltages up to 165 volts 1.1 max. watts			
For grid-No.2 voltages between			
165 and 330 voltsSee Grid-No.2 Input Rating Chart at front of Receiving Tube Section			
BEAM POWER UNIT - AMPLIFIER - Class A			
Maximum Ratings, Design-Maximum Values:			
Plate Voltage 275 max. volts			
Grid-No.2 (Screen-Grid) Voltage 275 max. volts Plate Dissipation			
Plate Dissipation			
Typical Operation and Characteristics:			
Plate Voltage 250 volts	-		
Grid-No.2 Voltage			
Grid-No.1 (Control-Grid) Voltage8 volts			
Peak AF Grid-No.1 Voltage 8 volts			
Zero-Signal Plate Current			
Zero-Signal Grid-No.2 Current 2.5 ma			
Max.—Signal Grid—No.2 Current			
Plate Resistance (Approx.)			
Load Resistance 5000 ohms			
Total Harmonic Distortion 10 per cent			
Max.—Signal Power Output 4.2 watts			
Maximum Circuit Values:	$\overline{}$		
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AVERAGE CHARACTERISTICS Beam Power Unit

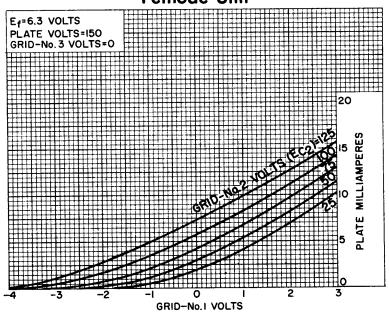


OPERATION CHARACTERISTICS Begm Power Unit



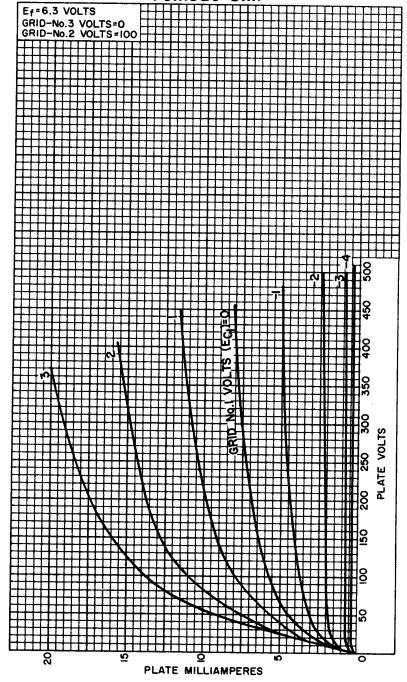
92CS-12663

AVERAGE CHARACTERISTICS Pentode Unit



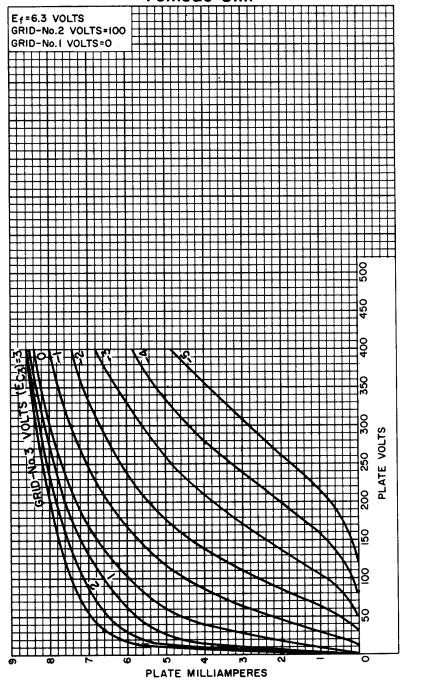
92CS-12670

AVERAGE PLATE CHARACTERISTICS Pentode Unit



92CM-12671

AVERAGE PLATE CHARACTERISTICS Pentode Unit



92CM-12672